

SP

Notice of Allowability

Application No.

10/799,729

Applicant(s)

CHIANG, CHENG-TANG

Examiner

Navin Natnithithadha

Art Unit

3736

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 27 April 2005.
2. ☒ The allowed claim(s) is/are 1-4.
3. ☒ The drawings filed on 15 March 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____;

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joe McKinney Muncy on April 29, 2005.

The application has been amended as follows:

Specification Amendments:

On page 2, line 25, amend "analog filter/amplifier" with the following:

-- analog filter/amplifier 13 --.

On page 6, line 15, amend "To make it easier for our examiner to" with the following:

-- To --.

Claim Amendments:

In claim 1, lines 12-20, amend "a bio-signal measurement, for receiving a signal transmitted from said bio-potential sensor and coupling to a negative feedback difference common mode signal and a buffer/balanced circuit, thereby said buffer/balanced circuit being fed back to said negative feedback difference common mode signal, and said both negative feedback difference common mode signal and

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buffer/balanced circuit providing a circuit with a self common point electrode potential;”
with the following:

- -

a bio-signal measurement unit for receiving a signal transmitted from said bio-potential sensor and coupling to a negative feedback difference common mode signal unit and a buffer/balanced circuit, wherein said buffer/balance circuit feeds back a signal from said negative feedback difference common mode signal unit to said bio-signal measurement unit, and wherein said both negative feedback difference common mode signal unit and buffer/balanced circuit providing a circuit with a self common point electrode potential;

- -.

In claim 1, line 21, amend “analog filter/amplifier,” with the following:

- - analog filter/amplifier - -.

In claim 1, line 23, amend “processing unit” with the following:

- - processing unit - -.

In claim 1, line 24, amend “for” with the following:

- - to - -.

In claim 1, line 25, amend “processing and comparing” with the following:

- - process and compare - -.

In claim 1, line 26, amend “signal processing unit,” with the following:

- - signal processing unit - -.

In claim 1, line 27, amend “being” with the following:

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-- is --.

In claim 1, line 29, amend "for setting" with the following:

-- to set --.

In claim 2, line 2, amend "ESD" with the following:

-- Electro-Static Discharge --.

In claim 2, line 3, amend "for protecting" with the following:

-- to protect --.

In claim 3, line 3, amend "for selectively entering a" with the following:

-- to selectively enter --.

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance:

Both, Lekhtman (US 5,337,753 A) and Leon et al (US 5,365,934 A) teach using active and common mode electrodes as described in the Applicant's admitted prior art in the "Background of the Invention" section of the Specification.

Bates (US 6,165,129 A) teaches removable "display device" 49 from a "pulse measurement device" 10.

Richter (US 6,115,629 A) teaches a "ESD protection circuit" 105 (see fig. 1A).

In regards to independent claim 1, the prior art of record does not teach a bio-signal measurement coupled to a negative feedback difference common mode signal and a buffer/balanced circuit, wherein the buffer/balanced circuit is fed back to the negative feedback difference common mode signal, and wherein both negative feedback difference common mode signal and buffer/balanced circuit providing a circuit with a self common point electrode potential.

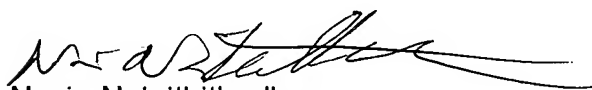
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Navin Natnithithadha whose telephone number is (571) 272-4732. The examiner can normally be reached on Monday-Friday, 8:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on (571) 272-4726. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Navin Natnithithadha
Patent Examiner
GAU 3736
28 April 2005


MAX F. HINDENBURG
ASSISTANT PATENT EXAMINER
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